

KAZAKOV, V. I. (Reviewer)

VENERAL DISEASES

"Laboratory diagnosis of skin and venereal diseases, second enlarged edition."  
K. R. Astvatsaturov. Reviewed by Kazakov, V. I. Ven. i derm. no. 4, 1952.

Monthly List of Russian Accessions. Library of Congress, November 1952. UNCLASSIFIED

1. KAZAKOV, V. I.
2. USSR (600)
4. Skin - Diseases
7. "Roentgenotherapy of skin diseases." M. Ye. Manikov. Reviewed by V. I. Kazakov. *Vest. ven. i derm.* no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 193. Unclassified.

KAZAKOV, V.I.

Classification of skin and venereal diseases. Vest. vener., Moskva no.2:  
24-27 Mar-Apr 1953. (CLML 24:3)

1. Of Chkalov Medical Institute.

KAZAKOV, V.I., dotsent; KRABKIN, B.S., dotsent; BAKSHT, B.P., vrach.

Utilization of one of the components of the phytoncidal complex of the forms of trichophytosis and microsporosis. Vest.ven.i derm. no.5:51 S-0 '53. (MIRA 6:12)

1. Iz kafedry dermatologii i biologii Chkalovskogo meditsinskogo instituta.  
(Phytoncides) (Medical mycology)

KAZAKOV, V.I. [reviewer].

"Model plan for practical studies on skin and venereal diseases for medical institutes." Reviewed by V.I.Kazakov. Vest.ven.i derm. no.5: 62-63 S-0 '53. (MLRA 6:12)

(Skin--Diseases) (Venereal diseases) (Medicine--  
Study and teaching)

KAZAKOV, V.I. [reviewer]; ROZENTUL, M.A. [author].

"General therapy of skin diseases." M.A.Rozentul. Reviewed by  
V.I.Kazakov. Vest.ven.i derm. no.6:54-55 N-D '53. (MLRA 6:12)  
(Skin--Diseases) (Rozentul, M.A.)

KAZAKOV, V. I.

"Physical and health resort therapy for diseases of the skin."  
V. I. Sukharev. Reviewed by V. I. Kazakov. Vest. ven. i derm. no. 5:  
57-58 S-O '54. (MLRA 7:11)  
(SKIN--DISEASES) (PHYSICAL THERAPY)

KAZAKOV, V.I., dotsent

Current questions in the study of eczema. Vest.derm. i ven. 31 no.1:  
17-19 Ja-F '57. (MLRA 10:7)  
(ECZEMA  
etiol. and diag.)

KAZAKOV, V.I., dots.; MOLODTSOVA, A.A., ordinator; SKRIZHEVSKIY, V.K.,  
ordinator; CHERNOVA, S.V., ordinator

Material on a study of photoprotective and photosensitizing properties  
of various drugs for external application. Vest.derm. i ven. 31 no.2:  
47 Mr-Ap '57. (MIRA 12:12)

1. Iz kafedry kozhnykh i venericheskikh bolezney Stavropol'skogo  
meditsinskogo instituta.  
(DRUGS) (LIGHT--PHYSIOLOGICAL EFFECT)

KAZAKOV, V.I.

Strangulated hernia in Petit's triangle. Khirurgiia 33 no.4:145  
Ap '57. (MIRA 10:7)

1. Iz khirurgicheskogo otdeleniya Slobodskoy gorodskoy bol'nitsy  
Kirovskoy oblasti.  
(HERNIA) (INTESTINES--TUMORS)

ABDUSAMETOV, R.Kh. (Semipalatinsk), ANTON'YEV, A.A., kand.med.nauk. (Rostov-na-Donu), BRZHEKIJ, V.Ch. (Tikhvin, Leningradskaya oblast')  
GRZHEBIN, Z.N., prof. (Cherchovitse), IVANOV, N.A., prof. (Leningrad)  
KAZAKOV, V.I., doce. (Stavropol' na Kavkaze), SLAVKOVICH, N.Ye.  
(Moskva), TORKUYEV, N.A., prof. (Rostov-na-Donu), MAKSYMEN, A.A.  
doce. (Rostov-na-Donu), PAYN, A.B., kand.med.nauk (Saratov) KHISTIN, L.I.  
prof. (Stanislav), YAKUBSON, A.K., prof. (Novosibirsk), LESNIKOV, Ye.P.,  
asistant (Novosibirsk)

Problems of teaching dermatovenerology in medical institutes. Vest.  
derm. i ven. 32 no.3:60-69 '58 (MIFI 11:7)

(DERMATOLOGY, educ.

in Russia (Rus))

(SYPHILOLOGY, educ.

in Russia (Rus))

KAZAKOV, V.I.,dots.

Effect of various intensity of quartz-mercury irradiation on the histopathology of cutaneous nerves; biopsy experiments [with summary in English]. Vest.derm. i ven. 32 no.4:24-26 Jl-Ag '58 (MIRA 11:10)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - dots. V.I. Kazakov) Stavropol'skogo meditsinskogo instituta.

(SKIN, innervation,

ultraviolet rays, relation of dos. to histopathol. responses of nerve fibers (Rus))

(ULTRAVIOLET RAYS, effects,

on nerve fibers in skin, relation of dos. to histopathol. responses (Rus))

(NERVES, PERIPHERAL, effect of raditions,

ultraviolet rays, relation of dos. to histopathol. responses of fibers (Rus))

KAZAKOV, V.I.

Case report on incised penetrating wounds of the heart.  
Khirurgiia no.1:120-121 '63. (MIRA 17:5)

.. Iz khirurgicheskogo etioleniya (zav.V.I. Kazakov) Slobodskoy  
gorodskoy bol'ničey (plavnyy vrach V.S. Prokudin) Kirovskoy  
oblasti.

KAZAKOV, V. I.

Technique of a reverse transfusion of blood effused into the serous cavities (autohemotransfusion). Probl. gemit. i perel. krovi 9 no.11; 48-49 N '64.

1. khirurgicheskoye otvelaniye (zav. V.I.Kazakov) Slobodskoy gorodskoy bol'nitsy (glovenyy vrach V.S.Prekupin) Kirovskoy oblasti.

KAZAKOV, V.I., docent

Confused nomenclature and lack of acceptable classification of skin diseases as the most important deficiencies interfering into the study and teaching of dermatology. Vest. derm. i ven. 38 no.12:20-23 D '64. (MIRA 18-2)

1. Kafedra kozhnykh i venericheskikh boleznei (kav., docent V.I. Kazakov) Stavropol'skogo meditsinskogo instituta.

KAZAKOV, Viktor Ivanovich; CHENOV, B., red.

[Differential diagnosis and the principles of treatment in the practice of the dermatovenereologist] Differentsial'naia diagnostika i printsipy terapii v praktike dermatovenereologa. Stavropol', Stavropol'skoe Knizhnoe Izdatel'stvo, 1965. 228 p. (v. 18.10)

1. Zaveduyushchiy kafedroy kozhnykh i venereologicheskikh bolezney Stavropol'skogo Gosudarstvennogo meditsinskogo instituta (prof. Kazakov).

KAZAKOV, V.I.

Causal classification of skin diseases. Vest. derm. i ven.  
39 no.4:48-51 Ap '65. (MIRA 19:2)

1. Kafedra kozhnykh i venericheskikh bolezney (zav. - dotsent  
V.I. Kazakov) Stavropol'skogo meditsinskogo instituta. Submitted  
July 22, 1964.

L 21199-66  
ACC NR: AP6012774

EWT(m)/EWP(w)/T/EWP(t)

LPP(c) JD

SOURCE CODE: UR/0226/66/000/004/0065/0068

AUTHOR: Kazakov, V. K.; Gorodetskiy, S. S.ORG: Institute of the Problems of the Science of Materials, AN SSSR (Institut  
problem materialovedeniya AN SSSR)TITLE: Mechanical properties of SiC-Si<sub>3</sub>N<sub>4</sub> base materialsSOURCE: Poroshkovaya metallurgiya, no. 4, 1966, 65-68TOPIC TAGS: intermetallic compound alloy, silicon carbide alloy, sintered alloy,  
silicon carbide containing alloy, silicon nitride containing alloy, alloy property,  
silicon nitride alloyABSTRACT: The dependence of the mechanical properties of sintered SiC-Si<sub>3</sub>N<sub>4</sub> alloys on composition, sintering temperature, and addition of strengthening compounds has been investigated. All alloys were prepared from silicon nitride (57.4% Si, 32.7% N) mixed with 20, 46.7, 65.3, or 78 mol% SiC powder (containing 97.3% SiC), compacted and sintered in a nitrogen atmosphere at 1600–1650°C. The sintered alloys had a porosity of 25–30%. The compression and bend strength of sintered SiC-Si<sub>3</sub>N<sub>4</sub> alloys does not change substantially with variations in sintering temperature from 1600 to 1630°C, but decreases with an increase of sintering temperature over 1630°C because of the decomposition of silicon nitride. Al<sub>2</sub>O<sub>3</sub>, MgO, or TiO<sub>2</sub> added to the mixture in the amount of 10 wt% increase the strength of the alloys, but SiO<sub>2</sub> decreases it

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L 24199-66

ACC NR: AP6012774

because of intense evaporation of silicon dioxide at 1600—1650C. Nonroasted titanium oxide (white) increases the strength of sintered parts. Roasted titanium oxide (yellow) lowers the strength of sintered parts, but makes it possible to obtain parts with approximately the same strength in the 1600—1650 range of sintering temperatures. The experimental results show that 1600—1630C is the optimal temperature range for sintering  $\text{SiC-Si}_3\text{N}_4$  material, and that the mechanical properties of the material are high in the entire investigated range of compositions from 20 to 78 mol% SiC. Orig. art. has: 4 figures and 2 tables. [MS]

SUB CODE: 11/ SUBM DATE: 15Aug65/ ORIG REF: 007/ OTH REF: 001/ ATD PRESS: 4245

Card 212 440

SANDONOV, G.V.; KALINOV, V.P.

Refractory materials of boron nitride + silicon carbide and  
boron nitride + silicon carbide. (January 30 no. 713-25 165.)  
(1971 18:2)

1. Institut problem ustrojstva i materialov

J 5320-66 EWP(e)/EPA(e)-2/EWT(m)/EPF(n)-2/DNP(t)/EWP(k)/EWP(a)/EWP(b)  
ACC NR: AP5026276 IJP(c) JD/WU/HW/JG UR/0226/65/000/010/0080/0084

AUTHOR: Kazakov, V. K.

TITLE: Nature of the interaction between titanium nitride and metals of the iron group and molybdenum and tungsten

SOURCE: Poroshkovaya metallurgiya, no. 10, 1965, 80-84

TOPIC TAGS: titanium nitride, iron, cobalt, nickel, molybdenum, tungsten, sintering, solubility, hardness

ABSTRACT: The authors present the results of a preliminary investigation of this interaction. Powders of TiN (76.4 wt.% Ti and 19.5 wt.% N) were separately mixed with commercial-purity powders of Fe, Co, Ni, Mo, and W in a ball mill. The alloys of TiN with metals of the iron group were prepared by pressing and sintering the mixtures, and the alloys of TiN with Mo and W were prepared by hot pressing in graphite molds. A determination of the linear shrinkage of the specimens following their sintering at 1400-1500°C showed that the shrinkage was 1-2% regardless of sintering time; at 1600-1900°C the shrinkage increased to ~3% for TiN-Fe, ~5% for TiN-Ni, ~9% for TiN-Co, which gives reason to believe that molten Co has a greater wetting effect on TiN than Ni and Fe. Microstructural examination showed that new phases form in alloys of TiN with W, Mo, Fe, Co, and Ni. The microhardness of these

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090102 85

L 5320-56

ACC NR: AP5026276

new phases is markedly lower than that of the TiN phase, and the strength of the TiN-Fe and TiN-Co alloys was found to be low. The grain boundaries of TiN are distinct and indicate the lack of solubility of TiN in the metals, as well as of the metals in TiN. The lack of interaction between TiN and these metals is indicated by the low shrinkage of the specimens, their limited strength, and the unchanged microhardness of TiN. Orig. art. has: 2 figures, 1 table.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute for the Study of Materials, AN UkrSSR)

SUBMITTED: 01Apr64

ENCL: 00

SUB CODE: MM, SS

NO REF SOV: 006

OTHER: 002

Card

2/2

KAZAKOV, V.K.

Manufacture of refractories of carborundum with a nitride  
binding and of  $\text{Si}_3\text{N}_4$  - SiC materials. Porosh. met. 5  
no.7:58-66 J1 '65. (MIRA 18:8)

1. Institut problem materialovedeniya AN UkrSSR.

ARTHM'YEV, Yu.N., kand. tekhn. nauk; ASTVATSATUROV, G.G., inzh.;  
BARABANOV, V.Ye., inzh.; BARYKOV, G.A., inzh.; BISHOVATYY, S.I.,  
inzh.; GALAYEVA, L.M., inzh.; GAL'PERIN, A.S., kand. tekhn. nauk;  
GAL'CHENKO, I.I., inzh.; GONCHAR, I.S., kand. tekhn. nauk;  
DEGTYAREV, I.L., kand. tekhn. nauk; DYADYUSHKO, V.P., inzh.;  
YERMAKOV, I.N., inzh.; ZHOTKEVICH, T.S., inzh.; ZUSMANOVICH, G.G.,  
inzh.; KAZAKOV, V.K., inzh.; KOZLOV, A.M., inzh.; KOROLEV, N.A.,  
inzh.; KRIVENKO, P.M., kand. tekhn. nauk; LAPITSKIY, M.A., inzh.;  
LEBEDEV, K.S., inzh.; LIBERMAN, A.R., inzh.; LIVSHITS, L.G., kand.  
tekhn. nauk; LOSEV, V.N., inzh.; LUKANOV, M.A., inzh.; LYUBCHENKO,  
A.N., inzh.; MAMEDOV, A.N., kand. tekhn. nauk; MATVEYEV, V.A.,  
inzh.; ORANSKI, N.N., inzh.; POLYACHENKO, A.V., kand. tekhn. nauk;  
POFOV, V.P., kand. tekhn. nauk; PUSTOVALOV, I.I., inzh.;  
PYTCHENKO, P.I., inzh.; PYATETSKIY, B.G., inzh.; RABOCHIY, L.G.,  
kand. tekhn. nauk; ROL'BIN, Ye.M., inzh.; SELIVANOV, A.I., doktor  
tekhn. nauk; SEMENOV, V.M., inzh.; SKOROKHOD, I.I., inzh.; SLABODCHIKOV,  
V.I., inzh.; STORCHAK, I.M., inzh.; STRADYNOV, F.Ya., kand. tekhn.  
nauk; SUKHINA, N.V., inzh.; TIMOFEEV, N.D., inzh.; FEDOSOV, I.M.,  
kand. tekhn. nauk; FILATOV, A.G., inzh.; KHODOV, L.P., inzh.;  
KHROMETSKIY, P.A., inzh.; TSVETKOV, V.S., inzh.; TSEYTLIN, B.Ye.,  
inzh.; SHARAGIN, A.M., inzh.; CHISTYAKOV, V.D., inzh.; BUD'KO, V.A.,  
red.; PESTRIKOV, A.I., red.; GUREVICH, M.M., tekhn. red.

(Continued on next card)

ARTEM'YEV, Yu.N.--- (continued) Card 2.

[Manual on the repair of machinery and tractors] Spravochnik po  
remontu mashinno-traktornogo parka. Pod red. A.I.Selivanova.  
Moskva, Sel'khozizdat. Vols.1-2. 1962. (MIRA 15:6)  
(Agricultural machinery—Maintenance and repair)  
(Tractors—Maintenance and repair)

1 1821-65 FWD(e)/HT(m)/EPF(c)/EPF(j)/EPF(n)-2/ENG(a)/T/FAP(t)/EXP(k)/

EN-2, EXP(b) Pt-4, Pr-4, Ps-4, Pu-4 JP(c) R. J. A. M.

ACCESSION NR: AP5018459

UR/0131/65/000/007, 0030, 0036  
666.76:661.55

48

8

15

AUTHOR: Samsonov, G. V.; Kazakov, V. K.

TITLE: Boron nitride - silicon nitride and boron nitride - silicon carbide refractories

SOURCE: Ogneupory, no. 7, 1965, 30-35

TOPIC TAGS: boron nitride refractory, silicon nitride refractory, silicon carbide refractory, powder metallurgy, fused borax, molten zinc

ABSTRACT: The specimens were prepared from BN-Si and BN-Si<sub>3</sub>N<sub>4</sub> powder-mixtures in which the components were present in amounts such that the final product would contain 20, 40, 60, and 80 mole % BN. The powder mixtures were pressed and sintered for 2-3 hr. at 1550C in nitrogen, hydrogen, and air. The BN-Si samples were first heated at 1350C to nitride the silicon. X-ray structural analysis did not reveal any differences in the BN-Si and BN-Si<sub>3</sub>N<sub>4</sub> samples. The BN-Si<sub>3</sub>N<sub>4</sub> system contains four phases: BN,  $\beta$ -Si<sub>3</sub>N<sub>4</sub>, Si<sub>2</sub>ON, and a slight amount of  $\alpha$ -Si<sub>3</sub>N<sub>4</sub>. Some mechanical properties of the BN-Si<sub>3</sub>N<sub>4</sub> refractories obtained are tabulated, their transverse strength (at a high content of Si<sub>3</sub>N<sub>4</sub>) is much greater than that of carbon-bonded refractories with a nitride binder. The oxidation resistance of the materials was also studied. BN-Si<sub>3</sub>N<sub>4</sub> refractories were attacked by fused borax only half as fast as

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L 61821-65

ACCESSION NR: AP5018459

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Si<sub>3</sub>N<sub>4</sub>-SiC refractories. Tests of the effect of molten zinc on BN-Si<sub>3</sub>N<sub>4</sub>, Si<sub>3</sub>N<sub>4</sub>, Si<sub>3</sub>N<sub>4</sub>-SiC, TiC, ZrC, and TiN showed that BN-Si<sub>3</sub>N<sub>4</sub> is the most resistant material. SiC-BN specimens were prepared by sintering for 1-2.5 hr. at 2200-2490°C. Depending upon the sintering temperature, the products either were two-phase alloys with new phases (2200-2350°C) or contained the original components (2250°C). Physicochemical properties were determined. Applications of the synthesized refractories are listed. Some of the tests were carried out at the Vsesoyuzny nauchno-issledovatel'skiy institut elektrotermicheskogo oborudovaniya (All-Union Scientific Research Institute for Electrothermal Equipment) and the Leningradskiy zavod im. D. I. Mendeleyeva (Leningrad Plant). Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute of Materials Science Problems, AN UkrSSR)

SUBMITTED: 60

ENCL: 00

SUB CODE: MT, MM

NO REF Sov: 008

OTHER: 002

Refractory Compounds

Card 2/2

AUTHOR: Kazakov, V. K.

TITLE: Preparation of refractories from carborundum with a nitride binder and from silicon nitride - SiC materials

SOURCE: Poroshkovaya metallurgiya, no. 7, 1965, 58-66

TOPIC TAGS: refractory, carborundum, silicon nitride, silicon carbide, nitride binder

ABSTRACT: The mixtures were prepared from silicon carbide (SiC 97.3%), silicon nitride (9.9% impurities, 0.85% Si), and silicon (99.31% Si) powders, pressed, and sintered at 1600°C for 2 - 4 hrs. The density, porosity, and mechanical properties of the various  $\text{Si}_3\text{N}_4$ -SiC compositions are tabulated. It was found that the refractories obtained have a porosity of 25-30%, average thermal expansion coefficient of  $7 \times 10^{-6}$   $\text{cm}/\text{cm} \cdot \text{deg.}$ , a  $\text{K}_{\text{c}}$  range, transverse strength of 7.1  $\text{dan}/\text{mm}^2$ , tensile strength of 3.9  $\text{dan}/\text{mm}^2$ , and electrical resistance at 20°C of  $5 \times 10^9 \text{ ohm} \cdot \text{cm}$ . The process produces  $\text{Si}_3\text{N}_4$ -SiC refractories containing from 20 to 80 mole %  $\text{Si}_3\text{N}_4$ . The sintering time and energy consumption amount to one-half of those required by the direct sintering of  $\text{Si}_3\text{N}_4$ . These refractories are used in making electrical insulators.

Card 1/2

L 60031-65  
ACCESSION NR: AP5018274

press my sincere appreciation to corresponding member of the AN UkrSSR G. V. Samsonov for assistance in several problems which arose during this work and in the evaluation of the results obtained. Tests on the resistance of  $Si_3N_4$  - SiC refractories to molten aluminum were carried out in the Leningradskiy gornyy institut (Mining Institute) (Leningrad Mining Institute), while those on the resistance of  $Si_3N_4$  to molten iron at the Institut elektrosvarki, im. V. D. Patonu AN UkrSSR (Institute of Welding, Institute of Materialovedeniya AN UkrSSR (Institute of Materials).  
My thanks also to the problem materialovedeniya AN UkrSSR (Institute of Materials).  
S. V. Kuznetsov  
Kiev, 1965

Card 2/2 000

VOLLER, I.L., inzh.; KAZAKOV, V.L., inzh.

Experience in repairing reinforced concrete structures using injection concrete. Energ. stroi. no.32:86-89 '62. (MIRA 16:5)

1. Normativno-issledovatel'skaya stantsiya Moskovskogo filiala Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

BAUMAN, A.V.; KOMAROVA, P.A.; DOLZHENKOV, Yu.N.; KUSHCHANOV, G.K.;  
BRENNER, V.A.; IM, A.I.; KAZAKOV, V.M.; KOZHAKHANOV, S.;  
MURATOV, B.A.

Self-propelled drilling rig. Gor. zhur. no.7:75 J1 '63.  
(MIRA 16:8)

KAZAKOV, V.M.

New exhibits. Gidr. i mel. 15 no.10:51 0 '63. (MIRA 17:2)

1. Starshiy inzh.-metodist pavil'ona "Vodnoye khozyaystvo" na Vy-stavke dostizheniy narodnogo khozyaystva SSSR.

KATKOVA, M.O., metodist; KAZAKOV, V.M.

New exhibits. Inform. biul. VDNKh no.10:28-30 '63.  
(MIRA 18:5)

1. Pavil'on "Khraneniye i pererabotka zerna" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Katkova).
2. Starshiy inzh.-metodist pavil'ona "Vodnoye khozyaystvo" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kazakov).

ANTONOV, V.I., kand. tekhn. nauk; KAZAKOV, V.M., inzh.

Make more extensive use of polymeric and synthetic materials  
in the water economy! Gidr. i mel. 15 no.12:56-58 D '63.  
(MIRA 17:2)

1. Meshchershskaya zonal'naya optytno-meliorativnaya stantsiya  
(for Antonov). 2. Vystavka dostizheniy narodnogo khozyaystva  
SSSR (for Kazakov).

MANSVETOV, V.V., nauchnyy sotrudnik; RUDCHENKO, S.K., nauchnyy sotrudnik;  
KONDRIKOV, N.I., nauchnyy sotrudnik; TYAGUNOV, V.N., nauchnyy  
sotrudnik; KAZAKOV, V.N., nauchnyy sotrudnik; YERMOSHIN, I.P.,  
polkovnik, redaktor; GAL'PERIN, S.Yu., redaktor

[Historical Artillery Museum; a concise guidebook] Artilleriiskii  
istoricheskii muzei; kratkii putesvoditel'. Pod obshchei red. I.P.  
Ermoshina. Leningrad, 1955. 171 p. (MLRA 9:12)

1. Leningrad. Artilleriyskiy istoricheskii muzei.  
(Leningrad--Military museums)

ARTAMONOV, K.I.; LEBEDEV, N.I.; YERGALIYEV, E.Ye.; LESECHKO, A.K.;  
YAKUSHIN, M.V.; KAZAKOV, V.N.; BRYUKHANOV, N.G.; NIKITINA, L.I.;  
KHVESYUK, F.I.; Prinimali uchastiye: Matveyev, A.T.; Kovalev, S.I.;  
ROMANOV, V.S.; MARCHENKO, B.P.; ZUDOVA, T.I.; OMAROV, M.N.;  
PECHENKIN, S.N.; LUKIN, Ye.G; KHLUDKOV, V.I.

Shaft-furnace copper smelting with an oxygen-enriched blow.  
TSvet. met. 34 no.3:32-39 Mr '61. (MIRA 14:3)

1. Irtyshskiy polimetallichесkiy kombinat (for Artamonov, Lebedev,  
Yergaliyev, Lessechko, Matveyev, Kovalev, Romanov, Marchenko, Zudova,  
Omarov). 2. Vsesoyuznyy nauchnoissledovatel'skiy institut tsvetnykh  
metallov (for Yakushin, Kazakov, Bryukhanov, Nikitina, Khvesyuk,  
Pechenkin, Lukin, Khludkov).

(Copper—Metallurgy) (Oxygen—Industrial applications)

YAKUSHIN, M.V.; BRYUKHANOV, N.G.; KAZAKOV, V.N.; NIKITINA, L.I.;  
KHVESYUK, F.I.; PECHENKIN, S.N.; ARTAMONOV, K.I.; LEBEDEV, N.I.;  
MATVEYEV, A.T.; KOVALEV, S.I.

Converter treatment of complex metal mattes with an oxygen  
enriched blow. TSvet.met. 34 no.10:34-39 0 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov  
(for Yakushin, Bryukhanov, Kazakov, Nikitina, Khvesyuk, Pechenkin).
2. Irtyshskiy polimetallichесkiy kombinat (for Artamonov, Lebedev,  
Matveyev, Kovalev).  
(Nonferrous metals--Metallurgy) (Converters)

TSYGODA, I.M.; KAZAKOV, V.N.; SEREGIN, Yu.I.; KORNEYEV, V.F.; Prinimali  
uchastIye: PECHENKIN, S.N.; GLAZACHEV, A.M.; TRAVIN, V.F.

Pilot plant testing of the sinter roasting of copper charges  
with a bottom blow. TSvet. met. 35 no.3:23-30 Mr '62.

(Sintering--Testing) (Copper ores) (MIRA 15:4)

TSYGODA, I.M.; KAZAKOV, V.N.; KOLESNIKOV, N.A.; BRYUKHANOV, N.G.; BURBA, A.A.; SADYKOV, V.I.; PIGAREV, A.D.; Prinimali uchastiye: PECHENKIN, S.N.; GLAZACHEV, G.M.; KHVESYUK, F.I.; KODINTSEV, A.V.; YERGALIYEV, E.Ye.; YERMAKOVA, Z.S.; NOVAK, I.V.; KHIL'KO, I.Ye.; LYASHEVSKIY, R.A.; PROKHOROV, A.I.; CHERTOVA, N.G.; URUBKO, V.N.; KUGUCHEV, V.V.

Industrial testing of a flow sheet for the processing of Altai complex metal ores along the lines of the flow sheet used at the Mednegorskii Combine. TSvet. met. 36 no.12:12-15 D '63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy gorno-metallurgicheskiy institut tsvetnykh metallov (for Pechenkin, Glazachev, Khvesyuk, Kodintsev). 2. Irtyshskiy polimetallichесkiy kombinat (for Yergaliyev, Yermakova). 3. Mednogorskii medno-seryyy kombinat (for Novak, Khil'ko, Lyashevskiy, Prokhorov, Chertova, Urubko, Kuguchev).

SAVRAYEV, V.P.; KAZAKOV, V.N.; BOGATYREV, M.F.

Purification of converter gases in copper smelting plants. TSvet.  
met. 35 no.11:57-62 N '62. (MIRA 15:11)  
(Gases--Purification)  
(Copper industry--By-products)

YUMATOV, Boris Petrovich, doktor tekhn. nauk; FILIUSOV, N.A.,  
kand. tekhn. nauk, dots., retsenzent; KUDRYASHOV, V.A.,  
kand. tekhn. nauk, dots., retsenzent; RADCHENKO, L.M.,  
dots., kand. tekhn. nauk, retsenzent; FILUS, A.I.,  
dots., kand. tekhn. nauk, retsenzent; KAZAKOV, V.N., gornyy  
inzh., retsenzent; ROSSMIT, A.M., oiv. red.

[Mining machinery for working placer deposits] Gornye ma-  
shiny dlia razrabotki ressypei. Moskva, Nedra, 1974. 374 p.  
(MIRA 18:2)

1. Kafedra Irkutskogo politekhnicheskogo instituta (fei  
Kudryashov, Radchenko, Filus, Kazakov).

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9

RYLEYEV, G. S.; KRYUGER, P. K.; KAZAKOV, V. N.; VIL'KEVICH, B. I.  
KAZAKOV, V. N.

"Ekspliyatatsiya Teplovozov i Teplovoznoe Khozyaistvo" (Exploitation of Diesel  
Locomotives and Engine Economy), 295 p., State Railway Transportation Publ.,  
Moscow, 1951.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9"

RYLEYEV, G.S.; KRYUGER, P.K.; KAZAKOV, V.N.; VIL'KEVICH, B.I.; KOGOSOV,  
B.Ye., redaktor; DROBINSKIY, V.A., redaktor; VERINA, G.P.,  
tekhnicheskiy redaktor

[The operation of diesel locomotives and the management of the  
diesel locomotive traction system] Ekspluatatsiya teplovozov i  
teplovoznoe khoziaistvo. Moskva, Gos. transp. zhel-dor. izd-vo,  
1951. 294 p.  
(Diesel locomotives)

KRYUGER, P.K., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, V.N.,  
dotsent, kandidat tekhnicheskikh nauk

Selecting an efficient traction arm length for Diesel locomotives. Trudy TASHIT no. 3:38-61 '51. (MIRA 8:10)  
(Diesel locomotives)

KAZAKOV, V.N.,

KRYUGER, P.K.; KOTS, S.L.; KAZAKOV, V.N.; GRESCHANSKIY, V.S.; FEDOROV, P.N.;  
MEBOZHENKO, I.A.; PEREL'MAN, Yu.S.; VANILOV, V.I., inzh., red.;  
KHITROV, P.A., tekhn.red.

[Repairing electric equipment and cab sections of diesel locomotives]  
Remont elektrooborudovaniia i ekspazhnoi chasti teplevozov. Moskva,  
Gos.transp.zhel-dor. izd-vo, 1955. 150 p. (MIRA 11:6)  
(Diesel locomotives--Maintenance and repair)

RYLEYEV, G.S.; KRYUGER, P.K.; KAZAKOV, V.N.; VIL'KEVICH, B.I.; MEREZHKO,  
V.G., inzhener, redaktor; SAZONOV, A.G., inzhener, redaktor;  
BOBROVA, Ye.N., tekhnicheskiy redaktor

[Management and operation of diesel locomotives] Teplovoznoe khozai-  
stvo. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 311 p. (MLRA 9:12)  
(Diesel locomotives)

RYLEYEV, G.S.; KRYUGER, P.K.; KAZAKOV, V.N.; VIL'KEVICH, B.I. Primal uchastiye BELEN'KIY, M.N.; FEDOTOV, I.I., kand. tekhn. nauk, retsenzent; LUGININ, N.G., kand. tekhn. nauk, retsenzent; CHEBYKIN, V.N., kand. tekhn. nauk, retsenzent [deceased]; ONISHCHENKO, I.T., kand. tekhn. nauk, retsenzent; TELICHKO, V.G., inzh., retsenzent; ISIKOV, Ye.N., inzh., retsenzent; ROZHDESTVENSKIY, A.S., inzh., retsenzent; MEDVEDEVA, M.A., tekhn. red.

[Management and operation of diesel locomotives] Teplovoznoe khoziaistvo. Izd.2., perer. i dop. [By] G.S.Ryleev i dr. Moskva, Transzheldorizdat, 1963. 290 p.

(MIRA 17:3)

KAZAKOV, V.N. [Kazakov, V.M.]

Effect of stimulation of the pulmonary receptors on the electric activity of the cerebral cortex in cats under ether anesthesia.  
Fiziol.zhur. [Ukr.] 11 no.4:530-533 Jl--Ag '65.

(MIRA 18:10)

1. Kafedra normal'noy fiziologii Vinnitskogo meditsinskogo instituta  
i kafedra normal'noy fiziologii Odesskogo meditsinskogo instituta.

KAZAKOV, V.N.; SMIRNOV, V.I., akademik

Studying the inflammability of lead and zinc sublimates. Izv.  
vys. ucheb. zav.; tsvet. met. 8 no.4:62-67 '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut i Vsesoyuznyy nauchno-  
issledovatel'skiy gornometallurgicheskiy institut tsvetnykh  
metallov. 2. AN KazSSR (for Smirnov).

KAZAKOV, V. P.

"An Investigation of the Operation of "ooflike Gates." Cand Tech Sci, Moscow Inst of Engineers of Water Economy imeni V. R. Vil'yams, 1 Mar 54. Dissertation (Vechernyaya Moskva, 18 Feb 54)

SO: SUM 186, 19 Aug 1954

KAZAKOV, V.P.

Problem of the movement of a mechanism under the action of determined forces. Trudy Sem. po teor. mash. 14 no.56:90-96 '55. (MIRA 8:7)  
(Mechanical movements)

KAZAKOV, V.P.; PESHCHEVITSKIY, B.I.

Equivalence of the bonds in  $\text{PtCl}_4$ . Radiokhimia 4  
no.4:509-510 '62. (MIRA 15:11)  
(Platinum chloride) (Chemical bonds)

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.

Compensation effect and kinetic scale of the transeffect in  
platinum complexes. Zhur.neorg.khim. 8 no.1:250-251 Ja '63.  
(MIRA 16:5)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya  
AN SSSR.  
(Platinum compounds) (Chemical reaction, Rate of)

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.; YERENBURG, A.M.

Electrochemical potentials of the bromide complexes of gold.  
Zhur.neorg.khim. 8 no.4:853-859 Ap '63. (MIRA 16:3)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.  
(Gold bromide—Electric properties) (Potentiometric analysis)

KAZAKOV, V.P.

Temperature quenching of luminescence. The compensation effect.  
Opt. i spektr. 18 no.1:54-57 Ja '65.

(MIRA 18:4)

KALININ, V. V.

KALININ, V. V. "Developing principles for developing aircraft maintenance and regulation system." Inst. of Aeronautics and Telecommunications, Acad. Sci. USSR, Moscow, 1974. (Dissertation for the Candidate Certificate in Technical Sciences).

DR. KALININ, M. V. No. 2, 1956

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9

Kazakov, V.P.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9"

AUTHOR: KAZAKOV, V.P. PA - 2835  
TITLE: Some Problems of Design of Multi-Channel Feedback Control Systems.  
(Nekotoryye voprosy postroyeniya mnogokanal'nykh sistem avtomaticheskogo regulirovaniya, Russian)  
PERIODICAL: Avtomatika i Telemekhanika, 1957, Vol 18, Nr 4, pp 324 - 335 (U.S.S.R.  
Received: 5 / 1957 Reviewed: 6 / 1957

ABSTRACT: Two selection principles may be used in multi-channel systems of regulation (MSR). The first - the frequency principle - requires complicated schematical and constructive solutions. The second - the time principle - is widely used in remote control and all known MSR. Successive closing of the circuit takes place by means of switching, which is one of the basic elements in such systems. A periodic short-timed closing of the current circuit of the input signals is useful for forming the error-impulse signal in a rapid MSR. Some possible solutions are shown here for the following problems in the case of the regulation of a large number of channels (of the order of magnitude 100), where processes with frequencies of up to 0,5 - 1 ko take place: Forming and switching of impulse signals of the deviation for each channel, connecting of the channels by means of contact-less rapid switches of long life, increase of the duration of the effect of impulse-control signals and correction of the regulating processes in the MSR. The impulse-correction device in the MSR permits the regulation of a group of objects with

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PA - 2835

Some Problems of Design of Multi-Channel Feedback Control Systems.

strong differences in dynamic properties. As a universal correction device a number-computation device may be used, the working character of which is determined by a corresponding selection of its program. (14 illustrations and 10 citations from Slav publications),

ASSOCIATION: Not Given.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress.

Card 2/2

KAZAKOV, V.P.

Two comments on the problem of the adjustment of machine operation.  
Trudy MIMESKH 4 no.1:14-17 '59. (MIRA 13:10)  
(Mechanical movements)

KAZAKOV, V.P. (Moskva)

Effect of hysteresis on the nature of periodic processes in pulse-  
relay systems [with summary in English]. Avtom. i telem. 22  
no:613-617 My '61. (MIRA. 14:6)  
(Automatic control) (Pulse techniques(Electronics))

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.

Mechanism of the formation of potential on a platinum electrode in the reduction of gold by sulfite. Izv. Sib. otd.  
AN SSSR no.9:65-70 '62. (MIRA 17:8)

1. Institut neorganicheskoy khimii Sibirskego otdeleniya  
AN SSSR, Novosibirsk.

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.; SHUL'MAN, V.M.

On the thermodynamics and kinetics of trans-effect. Izv. SO AN  
SSSR no.3 Ser. khim. nauk no.1:65-69 '63. (MIRA 16:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,  
Novosibirsk.  
(Platinum compounds) (Isomerization)

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.

Compensation effect and the kinetic scale of trans-effect in complex  
compounds of platinum. Izv. SO AN SSSR no.7 Ser.khim.nauk no.2;  
20-28 '63. (MIRA 16:10)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,  
Novosibirsk.

ACCESSION NR: AR4015119

S/0124/63/000/012/A013/A013

SOURCE: RZh. Mekhanika, Abs. 12A69

AUTHOR: Kazakov, V.P.

TITLE: Rotation of a body of variable mass about an axis and the law of rotation of the mechanism

CITED SOURCE: Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, vy\* p. 81, 1963, 214-216

TOPIC TAGS: variable-mass body, rotation, rotational mechanics

TRANSLATION: The author compares the differential equation of rotation about an axis of a body of variable mass and the differential equation of motion of a mechanism with a single degree of freedom with a reduced variable moment of inertia. He notes the case of the equivalence of the two equations for a certain ratio between the velocity of the adhering (or escaping) particle and the rotational velocity of rotation of a variable-mass body. L.M. Vorob'yev.

DATE ACQ: 31Dec63  
Card 1/1

SUB CODE: PH

ENCL: 00

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9

PESHCHEVITSKIY, B.I.; KAZAKOV, V.P.

Compensation effect in complex compounds of cobalt. Zhur. neorg. khim. 8 no.12:2816-2817 D '63. (MIRA 17:9)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721310008-9"

KAZAKOV, V.P.; LAPSHIN, A.I.; PESHCHEVITSKIY, B.I.

Oxidation-reduction potential of a thiourea complex of  
gold. Zhur. neorg. khim. 9 no.5:1299-1300 My '64.

(MIRA 17:9)

BELYAYEV, A.V.; KAZAKOV, V.P.; PTITSYN, B.V.

Certain features of the behavior of complex compounds of Rn (III) in solution as linked with the compensation effect. Dokl. AN SSSR 360 no.1:149-150 Ja '65. (MIRA 18:2)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Ptitsyn).

KAZAKOV, V.P.; FESHCHENSKIY, B.I.; YERENBURG, A.M.

Compensation effect in the kinetics of actinide reactions.  
Radiokhimia 6 no.3:291-298 '64. (MIRA 18:3)

KAZAKOV, V.P.; MATVEYEVA, A.I.; YERENBURG, A.M.; PESHCHEVITSKIY, B.I.

Kinetics of the reduction of complex gold (III) chlorides with  
oxalate in an aqueous solution. Zhur. neorg. khim. 10 no.5:  
1038-1044 My '65. (MIRA 18:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

KARAEV, V. P.

Kinetics of the hydrolysis of  $\text{AsO}_4^{4-}$  in an acid medium. Zhur. Nauk. Russ. Akad. Nauk. No. 5, 1970, p. 1278. By 1965. (MIRA 1846)

U. S. Joint Organic Chemicals Branch Sibirskogo otdeleniya AN SSSR.

KARABOV, V. I., BLOKHIN, A.M.; LEZHCHEVITISKII, B.I.

Kinetics of oxidation-reduction reactions involving an  $\text{AuCl}_4^-$  ion.  
Kin. i kat. 6 no.4:728-730 Jl-Ag '65. (MIRA 18:9)

1. Institut neorganicheskoy khimii Sibirs'kogo otdeleniya AN SSSR.

KAZAKOV, V.P.

Effect of the external magnetic field on the reaction rate in  
solution. Zhur.fiz.khim. 39 no.7:1798-1799 Jl '65.

(MIRA 18:8)

L 18804-66

ACC NR: AP6006964

SOURCE CODE: UR/0368/66/004/002/0147/0156

AUTHOR: Batsanov, S. S.; Kobets, L. I.; Kazakov, V. P.; Batsanova, L. R.

33  
B

ORG: none

TITLE: Optical spectra of  $\text{CaF}_2(\text{Tb})$  crystals

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 2, 1966, 147-156

TOPIC TAGS: phosphor, terbium, calcium fluoride, luminescence spectrum, absorption spectrum

ABSTRACT: The authors studied the absorption and luminescence spectra of a number of fluorite crystals activated by terbium oxide, hydroxyfluorides, and fluorides in concentrations from 0.01 to 5 mol.%. The specimens were polished cylinders 12 mm in diameter and 24-28 mm long with parallel faces. A mercury lamp was used for luminescence excitation with a light filter for isolating the 290-360  $\mu\text{m}$  region. A DFS-12 spectrograph was used for taking the luminescence spectra with an optical slit of 0-11.11  $\text{\AA}$  in width at temperatures of 300 and 77°K in the 3600-6500  $\text{\AA}$  range. The absorption spectra were taken at room temperature. A

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UDC: 535.372

L 18804-66  
ACC NR: AP6006964

mercury lamp with a wavelength of 265  $\mu$  isolated by a monochromator with a quartz prism was used for excitation of the specimens in measurements of the relative luminescence intensity as a function of concentration. Variations in the optical spectra are analyzed as functions of the chemical composition and concentration of the activator. The experimental data indicate that the variations in crystal spectra caused by changes in impurity concentration are due to interaction between the terbium ions forming cation pairs. It is shown that the ratio of the relative luminescence intensities of the crystals to the coefficient of absorption is a linear function of impurity concentration. The problem of interaction between an isomorphic impurity and crystal defects is discussed. "In conclusion the authors are grateful to Ye. V. Sobolev and M. V. Konovalova for assistance in the work." Orig. art. has: 3 figures, 3 tables. [14]

SUB CODE: 20/ SUBM DATE: 27Dec64/ ORIG REF: 007/ OTH REF: 015/ ATD PRESS:

4217

Card 2/2 *last*

ACC NR: AP6014892

SOURCE CODE: UR/0076/65/039/012/2936/2941

AUTHOR: Kazakov, V. P.ORG: AN SSSR, Siberian Branch, Institute of Inorganic Chemistry 36  
(AN SSSR, Sibirskoe otdelenye, Institut neorganicheskoy khimii) 37  
38

TITLE: Chemiluminescence of some reactions in concentrated sulfuric acid

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 12, 1965, 2936-2941

TOPIC TAGS: chemiluminescence, sulfuric acid, uranium compound, photomultiplier/M12FS35 photomultiplier, FEU-18 photomultiplier

ABSTRACT: The chemiluminescence was recorded with a type M12FS35 photomultiplier with a type EPPV-60 automatic recorder. Chemically pure reagents were used. The spectrum of the chemiluminescence was taken with a type UM-2 monochromotor and the light was recorded with a type FEU-18 photomultiplier. Experimental results are shown in a series of curves. The following new chemiluminescent systems were found:  
1) reactions of the products of the electrolysis of sulfuric and phosphoric acids near the anode in the presence of salts of  $UO_2^+$ ,  $Ge(III)$ ,  $Tb(III)$ , and quinine; and, 2) the reaction of strong oxidizers--ozone and sodium bismuthate with a solution of  $UO_2SO_4$  in concentrated

UDC: 535.37

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I-3587-46

ACC NR: AP6014892

sulfuric acid. The reaction of the final products of the electrolysis of  $H_2S_2O_8$ ,  $H_2O_2$ , and  $H_2SO_4$  with a solution of  $UO_2SO_4$  is not a source of chemiluminescence. Solution of  $UO_2 \cdot 2H_2O$  in acid does not produce light. The article proposes a mechanism consisting of the recombination of  $SO_4^{2-}$  ion radiocls with the participation of  $UO_2^{2+}$ ,  $Tb^{3+}$ , and  $Ce^{3+}$  complexes in sulfuric acid. Orig. art. has: 6 figures.

SUB CODE: 0720/SUBM DATE: 24Jul64/ ORIG REF: 016/ OTH REF: 005

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000" CIA-RDP86-00513R000721310008-9"

AUTHOR: Kazakov, V. P.; Lapshin, A. I.

ORG: Institute of Thermophysics, SO, AN SSSR, Novosibirsk (Institut teplofiziki SO AN SSSR)

TITLE: Chemiluminescence of rare earth elements in sulfuric acid

SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 2, no. 3, 1966, 376-383

TOPIC TAGS: chemiluminescence, rare earth element, luminescence attenuation

ABSTRACT: It has been found that the rare earth oxides in sulfuric acid solutions show chemiluminescence in the visible and ultraviolet regions when treated with the electrolysis products of  $H_2SO_4$ . The analysis of the luminescence attenuation curve indicates that the process leading to luminescence follows the bimolecular law and that its linear anamorphosis can be expressed by coordinates. A possible processing procedure is discussed, including participa-

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S/190/60/002/010/011/026  
B004/B054

AUTHORS: Ushakov, G. P., Gushcho, Yu. A., Lazurkin, Yu. S., and Kazakov, V. S.

TITLE: The Effect of the Phase Condition of Polyethylene During Irradiation Upon the Type of the Resulting Network

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 10, pp. 1512-1520

TEXT: The authors studied the dependence of radiation cross linking on the state of low-pressure polyethylene. Polyethylene samples were irradiated in thin-walled aluminum containers in the presence of helium in the reactor (dose 150 - 1625 Mrad). Crystalline samples were irradiated at 45 - 50°C, and amorphous, molten samples at 130-160°C. A table gives the change of the melting point caused by irradiation, the change of the vitrification temperature, and of the high-elasticity module  $E_{\infty}$ . Fig. 1 shows  $E_{\infty}$  as a function of temperature, Fig. 2 thermomechanical curves of the samples irradiated, Fig. 3  $E_{\infty}$  as a function of the irradiation dose, and Fig. 4 the nonmonotonous dependence of the melting point  $T_m$

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The Effect of the Phase Condition of Polyethylene S/190/60/002/010/011/026  
During Irradiation Upon the Type of the Resulting B004/B054  
Network

on the dose. The authors found that the crystallization properties of irradiated polyethylene strongly depend on its phase condition during irradiation. Irradiation in a molten state led to a fast drop of  $T_m$  and a decrease of the crystallization degree. On irradiation in a crystalline state, the authors first observed a slight drop of  $T_m$ , then a constant value, and then a slight increase. The crystallization degree decreased more slowly than on irradiation of melts. These effects are interpreted as different types of network in the amorphous and crystalline states. In the amorphous state, the network fixes the disordered state of chains. In crystalline samples, however, the cross links fix the local order of polymer chains. This effect corresponds to the effect of increase of  $T_m$  in rubbers when their chains are oriented. There are 4 figures, 1 table, and 18 references: 7 Soviet, 7 US, and 3 British. ✓

SUBMITTED: May 10, 1960

Card 2/2

L 17604-65    EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(l)    PC-4/Pr-4/  
Peb/Pu-4    AS(mp)-2/ASD(m)-3    CG/MLK/BN  
AM/022018    BOOK EXPLOITATION    S/

Ushakov, G. P.; Gushcho, Yu. A.; Lazurkin, Yu. S.; Kazakov, V. S.

B-1

Effect of the phase state of polyethylene during irradiation <sup>15</sup> on the character of  
the lattices being formed (Vliyanie fazovogo sostoyaniya polistilena pri  
obluchenii na kharakter obrazuyushcheysha setki) Moscow, 1960. 19 p. illus.,  
biblio. 155 copies printed. (At head of title: Ordena Lenina Institut Atom-  
noy Energii im. I. V. Kurchatova AN SSSR)

TOPIC TAGS: Crystalline polymer, radiation chemistry, amorphous polymer,  
polyethylene

PURPOSE AND COVERAGE: Data concerning the influence of radiation "stitching" on  
the melting point of polyethylene crystals are contradictory: both a lowering with  
increasing dosage and practical constancy have been observed. This discrepancy  
may be due to the difference in temperatures at which irradiation has been per-  
formed. The lattice being formed may have a different character during irradia-  
tion in the crystalline state than during irradiation in the amorphous state,  
despite the approximately identical consistency, and may affect the melting point

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L 17604-65  
AM4022018

of the crystals differently. Clarification of this question is the purpose of the present study.

TABLE OF CONTENTS:

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b. Results of measurements	-- 5
Discussion of results	-- 10
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Literature	-- 20

SUB CODE: CC, CC

SUBMITTED: OO

NR REF Sov: 007

OTHER: 010

Cord 2/2

KAZAKOV, V.S., inzh.

Self-balancing operating unit for trenchless construction of  
underground pipelines. Stroi. i dor. mash. 10 no.2:17-18 F  
'65. (MIRA 18:3)

KAZAKOV, V.Ya.; POSTOVSKIY, I.Ya.

Syntheses and some reactions of 4-substituted thiosemicarbazides.  
Dokl.AN SSSR 134 no.4:824-827 O '60. (MIRA 13:9)

1. Ural'skiy politekhnicheskiy institut im.S.M.Kirova. Predstavлено  
akad. M.M.Shemyakinym.  
(Semicarbazide)

KAZAKOV, V.Ya.; POSTOVSKIY, I.Ya.

Preparation of 4-alkyl- and 4-arylthiosemicarbazides. Izv. vys. ucheb. zav.; khim. i khim. tekhn., 4 no. 2:238-241 '61.

(MIRA 14:5)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.  
Kafedra organicheskoy khimii.  
(Semicarbazide)

GRINBLAT, Ye.I.; KAZAKOV, V.Ya.; SELEMIN, Yu.S.

All-purpose apparatus for continuous extraction. Zav.lab. 28  
no.5:632 '62. (MIRA 15:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.  
(Extraction apparatus)

KARASINA, E.S.; KROPP, L.I.; MINTS, M.S.; KNYAZ'KOV, B.N.; LITVINOV, D.D.;  
GRINBLAT, Ye.I.; KAZAKOV, V.Ya.; VOLKOV, B.V.; BARDIN, V.V.

Exchange of experience. Zav.lab. 28 no.5:633-635 '62.

(MIRA 15:6)

1. Vsesoyuznyy teplotekhnicheskiy institut imeni F.E.Dzerzhinskogo  
(for Karasina, Kropp, Mints). 2. Institut radiofiziki i  
elektroniki AN USSR (for Knyaz'kov, Litvinov). 3. Ural'skiy  
politekhnicheskiy institut imeni S.M.Kirova (for Grinblat,  
Kazakov). 4. Opytnokonstruktorskoye byuro sinteticheskikh pro-  
duktov (for Volkov). 5. Leningradskiy tekhnologicheskiy  
institut imeni Lensoveta (for Bardin).

(Chemical apparatus)

GRINBLAT, Ye.I.; KAZAKOV, V.Ya.

Esterification of  $\alpha, \beta$ -acetylenecarboxylic acids by the  
azeotropic method. Izv.vys.uch.zav.; khim.i khim.tekh.  
5 no.4:601-603 '62. (MIRA 15:12)

1. Ural'skiy politekhnicheskiy institut imeni Kirova,  
kafedra organicheskoy khimii.  
(Propiolic acid) (Esterification)

OA

The origin of the rich chernozem soils in Western Siberia. V. B. Kazakov. *Problemy Sovet. Pochvovedeniya* 1939, No. 7, 18-21. *Khim. Referat. Zhur.* 1940, No. 1, 68  
—Formation of this chernozem is connected with the chem.-biol. transformation of solonetz soils—from the upper-layer solonetz soils through the medium- and deep-layer solonets soils to the rich chernozem. The absorption capacity of the chernozem is up to 82 mg. equiv./exchange Na 10-20% of the exchange capacity. To accelerate the transformation of the barren solonetz soils into chernozem soils, K. recommends making the solonetz soils acid, adding manure and sowing grass. W. R. H.

AFR-55A METALLURGICAL LITERATURE CLASSIFICATION

KAZAKOV, V. Ye.

Kazakov, V. Ye. - "The problem on the effect the density of the cover of perennial grasses has on the temperature and moisture of the soil," Trudy Kazakh. s.-kh. in-ta, Vol 1, Issue 1, 1948, (on cover: 1949), p. 12-30 - Bibliog: 16 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

КИЛДУ, В. Я.

"A Method of Forming Turf in the Semi-Arid Steppe of Southern Kazakhstan," Pochvoved., 11, 1949.

KAZAKOV, V.YE.

Agriculture

Creation of heavy grass cover in the arid steppe zone of southern Kazakhstan. Alma-Ata, Kazgoizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952, Unclassified.

KAZAKOV, V.E.

Nauchnye osnovy osvoenija tselinnykh i zaleznykh zemel' v Kazakhstane (Scientific bases of the reclamation of new and idle lands in Kazakhstan). Alma-Ata, Kazgosizdat, 1954. 39 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

KAZAKOV, V.Ye.

[Working virgin and idle lands in Kazakhstan] Obrabotka tselinnykh  
i zaleznykh zemel'; v raionakh Kazakhstana. Moskva, Gos. izd-vo  
selkhoz. lit-ry, 1956. 47 p.  
(Kazakhstan--Agriculture)

(MLRA 9:10)

KAZAKOV, V.Ye.; AYNKEYEV, R.S.

Effect of various tillage practices on the freezing and thawing  
of soils in North Kazakhstan Province. Pochvovedenie no. 2:69-  
74 F '61. (MIRA 14:2)

1. Nazakhskiy gosudarstvennyy sel'skokhozyaystvennyy institut.  
(North Kazakhstan Province--Soil temperature)

KAZAKOV, V.Ye., prof., doktor sel'skokhozyaystvennykh nauk

Farming practices and crop rotations for state farms established  
on virgin lands of Kazakhstan. Zemledelie 23 no.1:68-72 Ja '61.  
(MIRA 13:12)

1. Kazakhskiy sel'skokhozyaystvennyy institut.  
(Kazakhstan--Agriculture)

KAZAKOV, V.Z.

Discussion on myocardial dystrophy. Terap.arkh. 27 no.1:89 '55.  
(MIRA 8:7)

1. Iz terapevcheskogo otdeleniya Kopeyskoy gorodskoy bol'nitey.  
(MYOCARDIUM, diseases,  
dystrophy)

KOZHEVNIKOV, S.N.; KUKHAEVICH, G.M., inzh.; KAZAKOV, Ye.A., inzh.;  
YEGOROV, V.S., inzh.; NEVEYKIN, A.V., inzh.

Analyzing the accuracy of weighing on lever-type hopper scales.  
Trudy Inst.chemi.met.AN URSR 16:15-25 '62. (MIRA 15:12)

1. Chlen-korrespondent AN UkrSSR (for Kozhevnikov).  
(Blast furnaces—Equipment and supplies)  
(Remote control)

KAZAKOV, Ye.D., red.; KRYLOVA, V.I., red.; KOZLOVSKAYA, M.D.,  
tekhn. red.; DUDKOV, V.A., tekhn. red.

[Shelterbelt afforestation] Lesnye zashchitnye nasazh-  
deniya. Moskva, Sel'khozizdat, 1963. 598 p.  
(MIRA 17:3)

CA

12

Quantitative relationship and ash content of components of wheat grain. E. D. Karakov. *Doklady Akad. Nauk S.S.R.* 58, 1081-2 (1947). Analyses of various strains of wheat grain gave the following ranges of component parts: Grain sheaths: 4.8-8.3%, all sheaths 17.38-20.3%; endosperm 75.90-9.19%; embryo 3.4-3.8%. Ash content values: grain sheaths 2.7-3.4%; all sheaths 5.77-6.47%; endosperm 0.80-0.48%; embryo 4.48-6.09%; washed grain

1.56-1.88%; mech. impurities 0.12-0.18%; original grain 1.68-2.06%.  
G. M. Kosolapoff

CA

12

Changes in fat after many years of grain storage.  
R. I. Khagakuy and A. N. Volkova. *Doklady Akad.*  
*Nauk S.S.R.* 72, 589-90 (1950).--When wheat, rye, or  
oats is stored 1-10 years the iodine no. of the fat content  
gradually declines with time; in oats stored 16 years the  
drop was to less than 40% of the original; wheat loses some  
40% in 11 years and rye about 25-30%. G. M. K.

KAZAKOV, YE. D.

175  
32. 401  
.K2

Zernovedeniye; laboratornyye zanytiya (Seed practice) Moskva, Znagotizdat,  
1954.  
154 p. illus., diagrs., tables.  
Literatura: p. (153)-154.